

Publication List of Fu-Chun Zhang

— Updated on Feb 14, 2011

Fu-Chun Zhang
Department of Physics, University of Hong Kong, Hong Kong
Phone: (852) 2241 5932
E-mail: fuchun@hku.hk

Publications listed below indicated with * are some of my representative papers. The times cited of each paper except those most recently published is also indicated.**

1. *Andreev and Single Particle Tunneling Spectroscopies in Underdoped Cuprates*, K. Y. Yang, K. Huang, W. Q. Chen, T. M. Rice, F. C. Zhang, Phys. Rev. Lett. 105, 167004 (2010). Times cited: 0
2. *Self doping effect and successive magnetic transitions in superconducting $\text{Sr}_2\text{VFeAsO}_3$* , G. H. Cao, Z. F. Ma, C. Wang, Y. L. Sun, J. K. Bao, S. Jiang, Y. K. Luo, C. M. Feng, Y. Zhou, Z. Xie, F. C. Hu, S. Q. Wei, I. Nowik, I. Felner, L. Zhang, Z. A. Xu, F. C. Zhang, Phys. Rev. B 82, 104518 (2010). Times cited: 1
3. *Finite-temperature Gutzwiller projection for strongly correlated electron systems*, W. S. Wang, X. M. He, D. Wang, Q. H. Wang, Z. D. Wang and F. C. Zhang, Phys. Rev. B 82, 125105 (2010). Times cited: 0
4. *Effect of Zn-impurity on T_c and its implication to pairing symmetry in under- and over-doped $\text{LaFeAsO}_{1-x}\text{F}_x$* , Y. K. Li, J. Tong, Q. Tao, C. M. Feng, G. H. Cao, Z. A. Xu, W. Q. Chen, F. C. Zhang, N. J. Phys. 12, 083008 (2010) Times cited: 2
5. *Theory of magneto-electric photocurrent generated by direct inter-band transitions in semiconductor quantum well*, H. Z. Lu, B. Zhou, F. C. Zhang, S. Q. Shen, arXiv: 1005.1345 (2010).
6. *Magnetoelectric Photocurrent Generated by Direct Interband Transitions in $\text{InGaAs}/\text{InAlAs}$ Two-Dimensional Electron Gas*, J. F. Dai, H. Z. Lu, C. L. Yang, S. Q. Shen, F. C. Zhang, X. D. Cui, Phys. Rev. Lett. 104, 246601 (2010). Times cited: 0
7. *Anderson impurity in a helical metal*, X. Y. Feng, W. Q. Chen, J. H. Gao, Q. H. Wang, and F. C. Zhang, Phys. Rev. B 81, 235411 (2010). Times cited: 2
8. *Electronic structure near an impurity and terrace on the surface of a three-dimensional topological insulator*, Q. H. Wang, D. Wang D, and F. C. Zhang, Phys. Rev. B 81, 035104 (2010). Times cited: 1
9. *In-plane noncollinear exchange coupling mediated by helical edge states in quantum spin Hall systems*, J. H. Gao, W. Q. Chen X. C. Xie XC, and F. C. Zhang, Phys. Rev. B 80, 241302 (2009). Times cited: 3
10. *Origin of the checkerboard pattern in scanning tunneling microscopy maps of under-doped cuprate superconductors*, K. Y. Yang, W. Q. Chen, T. M. Rice, F. C. Zhang, Phys. Rev. B 80, 174505 (2009). Times cited: 3
11. *Disorder effect of resonant spin Hall effect in a tilted magnetic field*, Z. F. Jiang, S. Q. Shen, F. C. Zhang, Phys. Rev. B 80, 195301 (2009). Times cited: 0
12. *π -junction to probe antiphase s -wave pairing in iron pnictide superconductors*, W. Q. Chen, F. J. Ma, Z. Y. Lu, F. C. Zhang, Phys. Rev. Lett. 103, 207001 (2009). Times cited: 4

13. *Imbalanced superfluid state in an annular disk*, F. Ye, Y. Chen, Z. D. Wang, F. C. Zhang, J. of Phys.: Condens Matter 21, 355701 (2009). Times cited: 2
14. *Nature of Stripes in the Generalized t - J Model Applied to The Cuprate Superconductors*, K. Y. Yang, W. Q. Chen, T. M. Rice, M. Sigrist, F. C. Zhang, New Journal of Physics 11, 055053 (2009). Times cited: 7
15. *Narrow superconducting window in $\text{LaFe}_{1-x}\text{Ni}_x\text{AsO}$* , G. H. Cao, S. A. Jiang, X. Lin, C. Wang C, Y. K. Li, Z. Ren Z, Q. Tao Q, C. M. Feng, J. H. Dai, Z. A. Xu, F. C. Zhang, Phys. Rev. B 79, 174505 (2009). Times cited: 25
16. *Quasiparticles in the Pseudogap Phase of Underdoped Cuprate*, K. Y. Yang, H. B. Yang, P. D. Johnson, T. M. Rice, F. C Zhang, EPL 86, 37002 (2009). Times cited: 17
17. *Variational Monte-Carlo studies of Gossamer Superconductivity*, S. Guertler, Q. H. Wang, F. C. Zhang, Phys. Rev. B. 79, 144526 (2009). Times cited: 1
18. *Observation of Exciton-Phonon Sideband in Individual Metallic Single-Walled Carbon Nanotubes*, H. L. Zeng, H. B. Zhao, F. C. Zhang, X. D. Cui, Phys. Rev. Lett. 102, 136406 (2009). Times cited: 3
19. *First Principles Study on the Structure and Electronic Properties of 2-Nitrimino-1-nitroimidazolidine*, H. Zhang, L. J. Xu, F. C. Zhang, X. L. Cheng, G. W. An, INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY 109 (4), 720 (2009). Times cited: 1
20. *Exploring Exotic Superfluidity of Polarized Ultracold Fermions in Optical Lattices*, Y. Chen, Z. D. Wang, F. C. Zhang, C. S. Ting, Phys. Rev. B 79, 054512 (2009). Times cited: 6
21. **** Strong Coupling Theory for Superconducting Iron Pnictides*, W. Q. Chen, K. Y. Yang, Y. Zhou, F. C. Zhang, Phys. Rev. Lett. 102, 047006 (2009). Times cited: 19
22. *Electron Tunneling in Monolayer and Bilayer Graphene*, D. Wu, W. Q. Chen, F. C. Zhang, arXiv:0808.3032 (2008).
23. *$\text{Na}_4\text{Ir}_3\text{O}_8$ as a 3D spin liquid with fermionic spinons*, Y. Zhou, P. A. Lee, T. K. Ng, F. C. Zhang, Phys. Rev. Lett. 101, 197201 (2008). Times cited: 14
24. *Symmetry of superconducting states with two orbitals on a tetragonal lattice: Application to $\text{LaFeAsO}_{1-x}\text{F}_x$* , Y. Zhou, W. Q. Chen, F. C. Zhang, Phys. Rev. B 78, 064514 (2008). Times cited: 14
25. *A classical picture of the role of vacancies and interstitials in Helium-4*, P. N. Ma, L. Pollet, M. Troyer, F. C. Zhang, JOURNAL OF LOW TEMPERATURE PHYSICS 152, p156-163 (2008). Times cited: 3
26. *Influence of the trap shape on the superfluid-Mott transition in ultracold atomic gases*, P. N. Ma, K. Y. Yang, L. Pollet, J. V. Porto, M. Troyer, F. C. Zhang, Phys. Rev. A 78, 023605 (2008). Times cited: 0
27. *Even Parity, Orbital Singlet and Spin Triplet Pairing for Superconducting $\text{La}(\text{O}_{1-x}\text{F}_x)\text{FeAs}$* , X. Dai, Z. Fang, Y. Zhou, F. C. Zhang, Phys. Rev. Lett. 101, 057008 (2008). Times cited: 40
28. *Quantum Monte-Carlo study of a two-species boson Hubbard model*, S. Guertler, M. Troyer, F. C. Zhang, Phys. Rev. B 77, 184505 (2008). Times cited: 2
29. *Quantum Oscillations in Magnetic Field Induced Antiferromagnetic Phase of Underdoped Cuprates : Application to Ortho-II $\text{YBa}_2\text{Cu}_3\text{O}_{6.5}$* , W. Q. Chen, K. Y. Yang, T. M. Rice, F. C. Zhang, EPL 82, 17004 (2008). Times cited: 27

30. *Theory of resonant spin hall effect* F. C. Zhang, S. Q. Shen, INTERNATIONAL JOURNAL OF MODERN PHYSICS B 22, 94-103 (2008). Times cited: 3
31. *Mott insulator-superfluid transitions in a two-band model at finite temperature and possible application to supersolid He-4*, H. B. Zhuang, X. Dai, M. Ma, F. C. Zhang, Phys. Rev. B 76, 174504 (2007). Times cited: 1
32. *Effect of superlattice modulation of electronic parameters on the density of states of cuprate superconductors*, K. Y. Yang, T. M. Rice, F. C. Zhang, Phys. Rev. B 76, 100501 (2007). Times cited: 6
33. *A phenomenological theory of the pseudogap state* T. M. Rice, K. Y. Yang, F. C. Zhang, PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS 460, 252-255, (2007). Times cited: 0
34. *Atomic scale rotational symmetry breaking in lightly doped $\text{Ca}_{2-x}\text{Na}_x\text{CuO}_2\text{Cl}_2$* , Y. Chen, T. M. Rice, F. C. Zhang, PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS 460, 1159, Part 2 (2007). Times cited: 0
35. *Light induced anomalous Hall effect in semiconductors with spin-orbit coupling*, X. Dai, F. C. Zhang, Phys. Rev. B 76, 085343, (2007). Times cited: 2
36. *Observation of electric current induced by optically injected spin current*, X. D. Cui, S. Q. Shen, J. Li, W. K. Ge, and F. C. Zhang, Appl. Phys. Lett. 90, 242115 (2007). Times cited: 18
37. *Unconventional superconducting symmetry in a checkerboard antiferromagnet studied via renormalized mean-field theory*, H. X. Huang, Y. Q. Li, J. Y. Gan and F. C. Zhang, Phys. Rev. B 75, 184523 (2007). Times cited: 6
38. *Spin-Orbital Entanglement and Phase Diagram of Spin-orbital Chain with $SU(2) \times SU(2)$ Symmetry*, Y. Chen, Z. D. Wang, Y. Q. Li, F. C. Zhang, Phys. Rev. 75, 195113 (2007). Times cited: 8
39. *Rotational Symmetry Breaking in Sodium Doped Cuprates*, Yan Chen, T. M. Rice, F. C. Zhang, Phys. Rev. Lett. 97, 237004 (2006). Times cited: 5
40. *Superconducting Pairing Symmetries in Anisotropic Triangular Quantum Antiferromagnets*, J. Y. Gan, Y. Chen, F. C. Zhang, Phys. Rev. B 74, 094515 (2006). Times cited: 5
41. *Low-energy physical properties of high- T_c superconducting Cu oxides: A comparison between the resonating valence bond and experiments*, K. Y. Yang, C. T. Shih, C. P. Chou, S. M. Huang, T. K. Lee, T. Xiang, and F. C. Zhang Phys. Rev. B 73, 224513 (2006). Times cited: 18
42. *Exploring quantum phase transitions with a sublattice entanglement scenario*, Y. Chen, Z. D. Wang, and F. C. Zhang Phys. Rev. B 73, 224414 (2006); quant-ph/0512143. Times cited: 17
43. *Local antiferromagnetic moment induced by Zn impurity in high- T_c superconducting copper oxides: A resonating-valence-bond picture*, T. Li, Q. H. Wang, Z. Y. Weng, F. Yang, and F. C. Zhang Phys. Rev. B 73, 212504 (2006). Times cited: 0
44. *Gossamer superconductivity in layered organic compounds*, J. Y. Gan, Y. Chen, Z. B. Su, and F. C. Zhang, PROGRESS OF THEORETICAL PHYSICS SUPPLEMENT 160, 15-27 (2005).
45. *Sublattice entanglement and quantum phase transitions in antiferromagnetic spin chains*, Y. Chen, P. Zanardi, Z. D. Wang, F. C. Zhang, New Journal of Physics 8: Art. No. 97 (2006); LANL quant-ph/0407228,(2004). Times cited: 46

46. *SU(2) \times U(1) unified theory for spin and charge currents* P. Q. Jin, Y. Q. Li, F. C. Zhang, Journal of Physics A, Math. Gen. 39 7115-7123 (2006); cond-mat/0502231 (2005). Times cited: 46
47. *** *Phenomenological theory of the pseudogap state*, K. Y. Yang, T. M. Rice, and F. C. Zhang, Physical Review B 73, 174501 (2006). Times cited: 64
48. *Transverse electric current induced by optically injected spin current in cross-shaped InGaAs/InAlAs system* J. Li, X. Dai, S. Q. Shen, F. C. Zhang, Appl. Phys. Lett. 88, 162105, 2006; cond-mat/0511724. Times cited: 13
49. *Unrestricted renormalized mean field theory of strongly correlated electron systems*, Q. H. Wang, Z. D. Wang, Y. Chen, F. C. Zhang, Phys. Rev. B 73, 092507 (2006); cond-mat/0506712 (2005). Times cited: 15
50. *Resonant intrinsic spin Hall effect in p-type GaAs quantum well structure*, X. Dai, Z. Fang, Y. G. Yao, F. C. Zhang, Phys. Rev. Lett. 96, 086802 (2006). cond-mat/0507603. Times cited: 14
51. *Edge Spin Current and Spin Polarization in Quantum Hall Region* Y. J. Bao, H. B. Zhuang, S. Q. Shen, F. C. Zhang, Phys. Rev. B 72 (24), 245323 (2005); cond-mat/0503592. Times cited: 12
52. *** *Theory for supersolid helium-4: Vacancy condensation facilitated by a low-energy bound state of a vacancy and an interstitial*, X. Dai, M. Ma, and F. C. Zhang, Phys. Rev. B 72, 132504 (2005). Times cited: 17
53. *** *Particle-hole asymmetry in doped Mott insulators: implications for tunneling and photoemission spectroscopies*, M. Randeria, R. Sensarma, N. Trivedi, F. C. Zhang, Phys. Rev. Lett. 95, 137001 (2005). Times cited: 45
54. *Charge Ordered RVB States in the Doped Cuprates*, H. X. Huang, Y. Q. Li, and F. C. Zhang, Phys. Rev. B 71, 184514 (2005). Times cited: 10
55. *Resonant spin Hall conductance in quantum Hall systems lacking bulk and structural inversion symmetry*, S. Q. Shen, Y. J. Bao, M. Ma, X.C. Xie, F. C. Zhang, Phys. Rev. B 71, 155316 (2005). Times cited: 30
56. *** *Gossamer Superconductivity near Antiferromagnetic Mott Insulator in Layered Organic Conductors*, J. Y. Gan, Y. Chen, Z. B. Su, F. C. Zhang, Phys. Rev. Lett. 94, 067005 (2005). Times cited: 40
57. *Theory of gossamer and resonating valence bond superconductivity*, J. Y. Gan, F. C. Zhang, and Z. B. Su, Phys. Rev. B 71, 014508 (2005). Times cited: 15
58. *Directional Ordering of Fluctuation in a Two-Dimensional Compass Model*, A. Mishra, M. Ma, F. C. Zhang, S. Gurtler, L. H. Tang, and S. L. Wan, Phys. Rev. Lett. 93, 207201 (2004). Times cited: 25
59. *Dynamically generated dimension reduction and crossover in a spin orbital model*, Th. N. De Silva, M. Ma, and F. C. Zhang, Phys. Rev. B 70 (Rapid communication), 100405, (2004). Times cited: 0
60. *RVB and Goassmar superconductivity*, F. C. Zhang, J. Y. Gan, and Z. B. Su, Physica C 408-410, 211-213 (2004). Times cited: 0
61. *** *Resonant spin Hall conductance in two-dimensional electron systems with a Rashba interaction in a perpendicular magnetic field*, S. Q. Shen, M. Ma, X. C. Xie, and F. C. Zhang, Phys. Rev. Lett. 92, 256603 (2004). Times cited: 97

62. *** *The physics behind high-temperature superconducting cuprates: the "plain vanilla" version of RVB*, P. W. Anderson, P. A. Lee, M. Randeria, T. M. Rice, N. Trivedi, and F. C. Zhang, J. Phys.: Condense Matter 24, Topical Review R 755 (2004). Times cited : 220
63. *Theory for spin and orbital ordering in high temperature phase in YVO_3* , Th. N. De Silva, A. Joshi, M. Ma, and F. C. Zhang, Phys. Rev. B 68, 184402 (2003). Times cited: 4
64. *** *Gossamer superconductor, Mott insulator, and resonating valence bond state in correlated electron systems*, F. C. Zhang, Phys. Rev. Lett. 90, 207002 (2003). Times cited: 53
65. *Spin wave theory for antiferromagnetic XXZ model on a triangular lattice in the presence of an external magnetic field*, J. Y. Gan, F. C. Zhang, and Z. B. Su, Phys. Rev. B 67, 144427 (2003). Times cited: 8
66. *On the origin of the psuedogap in underdoped cuprates*, Th. A. Maier, M. Jarrell, A. Macridin, and F. C. Zhang, submitted to Phys. Rev. Lett. (2002), LANL preprintcond-mat/0208419. Times cited: 4
67. *Antiferromagnetic Heisenberg model on anisotropic triangular lattice in the presence of magnetic field*, S. Q. Shen and F. C. Zhang, Phys. Rev. B 66, 172407 (2002). Times cited: 8
68. *Pathology of Schwinger bosn mean field theory for Heisenberg spin models*, Th. N. De Silva, M. Ma, and F. C. Zhang, Phys. Rev. B 66, 104417 (2002). Times cited: 2
69. *Phase transition in insulating vanadium oxide*, A. Joshi, M. Ma, and F. C. Zhang, Int. J. Mod. Phy. B 16, 3338 (2002). Times cited: 1
70. *Plaquette Ordering in $SU(4)$ Antiferromagnets*, A. Mishra, M. Ma, and F. C. Zhang, Phys. Rev. B 65, 214411 (2002). Times cited: 6
71. *Theory of molecular orbital ordering and anomalous antiferromagnetism in V_2O_3* , R. Shiina, F. Mila, F. C. Zhang, T. M. Rice, Physica B 312, 696-697 (2002). Times cited: 1
72. *High spin systems with orbital degeneracy*, S. Q. Shen, X. C. Xie and F. C. Zhang, Phys. Rev. Lett. 88, 027201 (2002). Times cited: 18
73. *Coexistence of ferromagnetism and superconductivity in Cu rich lanthanum Cu-oxide*, B. R. Zhao, X. L. Dong, P. S. Luo, M. Gao, Z. X. Zhao, L. M. Peng, Y. M. Ni, X. G. Qiu, S. Awaji, K. Watanabe, F. Wu, B. Xu, L. H. Zhao, and F. C. Zhang, European Physical J. B 25, 19 (2002). Times cited: 3
74. *Quantum critical point in a periodic Anderson model*, P. G. J. van Dongen, K. Majumdar, C. Huscroft, and F. C. Zhang, Phys. Rev. B 64, 5123 (2001). Times cited: 9
75. *** *Colourful electrons solve puzzle of ferromagnetism*, F. C. Zhang, Physics World 14: (7), 24-25, July 2001. Times cited: 2
76. *Theory for Phase Transitions in V_2O_3* , A. Joshi, M. Ma, and F. C. Zhang, Phys. Rev. Lett. 86, 5743 (2001). Times cited: 10
77. *Atomic spin, molecular orbitals and anomalous antiferromagnetism in insulating V_2O_3* , R. Shiina, F. Mila, F. C. Zhang, and T. M. Rice, Phys. Rev. B 63, 14442 (2001). Times cited: 26
78. *Plaquette Ground State in the Two-dimensional $SU(4)$ Spin-Orbital Model*, M. van den Bossche, F. C. Zhang and F. Mila, Eur. Phys. J. B 17, 367 (2000). Times cited: 16
79. *** *Orbitally degenerate spin-1 model for insulating V_2O_3* , F. Mila, H. Shiina, F. C. Zhang, A. Joshi, M. Ma, and T. M. Rice, Phys. Rev. Lett. 85, 1714 (2000). Times cited: 63

80. *Metal-insulator transition in colossal magnetoresistance materials*, V. N. Smolyainova, X. C. Xie, F. C. Zhang, M. Rajeswary, R. L. Green and S. Das Sarma, Phys. Rev. B 62, 3010 (2000). Times cited: 11
81. *On the origin of biquadratic exchange in spin 1 chains*, F. Mila and F. C. Zhang, European Phys. Journal B 16 (1), 7 (2000). Times cited: 16
82. *Biquadratic interactions and spin-Peierls transition in the spin-1 chain LiVGe_2O_6* , P. Millet, F. Mila, F. C. Zhang, M. Mambrim, A. B. Van Oosten, V. A. Pashchenko, A. Sulpice, A. Stepanov, Phys. Rev. Lett. 83, 4176 (1999). Times cited: 53
83. *Ground state and excitations of spin chain with orbital degeneracy*, Y. Q. Li, M. Ma, D. N. Shi, and F. C. Zhang, Phys. Rev. B 60, 12781 (1999). Times cited: 42
84. *Elementary excitations in magnetically ordered systems with spin degeneracy*, A. Joshi, M. Ma, F. Mila, D. N. Shi, and F. C. Zhang, Phys. Rev. B 60, 6584 (1999). Times cited: 20
85. *Theory for metal hydrides with switchable optical properties*, K. K. Ng, F. C. Zhang, V. I. Anisimov, T. M. Rice, Phys. Rev. B 59, 5398 (1999). Times cited: 74
86. *** *Theory of excitons in the insulating $\text{Cu} - \text{O}_2$ plane*, F. C. Zhang and K. K. Ng, Phys. Rev. B 58, 13520 (1998). Times cited: 30
87. *** *$SU(4)$ theory for spin systems with orbital degeneracy*, Y. Q. Li, M. Ma, D. N. Shi, and F. C. Zhang, Phys. Rev. Lett. 81, 3527 (1998). Times cited: 134
88. *Lightly doped t - J three-leg ladders: An analog for the underdoped cuprates*, T. M. Rice, S. Haas, M. Sigrist, and F. C. Zhang, Phys. Rev. B 56, 14655 (1997). Times cited: 48
89. *** *Electronic structure of lanthanum hydrides with switchable optical properties*, K. K. Ng, F. C. Zhang, V. I. Anisimov, and T. M. Rice, Phys. Rev. Lett. 78, 1311-1314 (1997). Times cited: 75
90. *Anomalous magnetic and superconducting properties in a Ru-based double perovskite*, M. K. Wu, D. Y. Chen, F. Z. Chien, S. R. Sheen, D. C. Ling, C. Y. Tai, G. Y. Tseng, D. H. Chen, F. C. Zhang, Zeitschrift fur Physik B 102, 37-41 (1997). Times cited: 69
91. *Anyon superconductivity in Si-Mosfet?*, F. C. Zhang and T. M. Rice, LANL con-mat 97-08050.
92. *Superconductivity in a Ru-based double perovskites*, M. K. Wu, S. R. Sheen, D. C. Ling, C. Y. Tai, G. Y. Tseng, D. H. Chen, D. Y. Chen, F. Z. Chien, and F. C. Zhang, Czechoslovak Journal of Physics, 46, 3381, Suppl. 6 (1996). Times cited: 6
93. *Spin and charge texture around in-plane charge centers in the CuO_2 planes*, S. Haas, F. C. Zhang, F. Mila, T. M. Rice, Phys. Rev. Lett. 77, 3021-3024 (1996). Times cited: 27
94. *Momentum-dependent charge transfer excitations in $\text{Sr}_2\text{CuO}_2\text{Cl}_2$ -angle resolved electron energy loss spectroscopy*, Y. Y. Wang, F. C. Zhang, V. P. Dravid, K. K. Ng, M. V. Klein, S. E. Schnatterly, and L. L. Miller, Phys. Rev. Lett. 77, 1809-1812 (1996). Times cited: 46
95. *Phase transitions of the bilayered spin- S Heisenberg model*, K. K. Ng, F. C. Zhang, and M. Ma, Phys. Rev. B 53, 12196-12200 (1996). Times cited: 10
96. *Momentum-transfer resolved electron-energy-loss spectroscopy of solids— problems, solutions and applications*, Y. Y. Wang, S. C. Cheng, V. P. Dravid, and F. C. Zhang, Ultramicroscopy 59, 109-119 (1995). Times cited: 6
97. *Momentum-transfer resolved electron-energy-loss spectroscopy in BaBiO_3 - anisotropic dispersion of threshold excitation and optical forbidden transition*, Y. Y. Wang, V. P. Dravid, N. Bulut, M. V. Klein, S. E. Schnatterly, and F. C. Zhang, Phys. Rev. Lett. 75, 2546-2549 (1995). Times cited: 12

98. *On the metallic nature of heavily doped polyacetylene*, Y. H. Kim and F. C. Zhang, Synthetic Metals 69, 663-665 (1995). Times cited: 0
99. *Exact scaling relation in one and two-dimensional Luttinger liquid*, Y. Ren and F. C. Zhang, Phys. Rev. B 52, 536-540 (1995). Times cited: 1
100. *Electronic structure of a vortex line in type II superconductor—Effect of atomic crystal field*, Y. D. Zhu, F. C. Zhang, and M. Sigrist, Phys. Rev. B 51, 1105-1111 (1995). Times cited: 9
101. *Momentum-transfer resolved electron-energy-loss spectroscopy of solids— problems, solutions and applications*, Y. Y. Wang, S. C. Cheng, V. P. Dravid, and F. C. Zhang, Ultramicroscopy 59, 109-119 (1995). Times cited: 3
102. **** Superconductivity in quasi-one-dimensional spin liquid*, M. Sigrist, T. M. Rice, and F. C. Zhang, Phys. Rev. B 49, 12058-12061 (1994). Times cited: 161
103. *$Sr_{n-1}Cu_{n+1}O_{2n}$: From one dimension to two dimensions via trellis lattices*, T. M. Rice, S. Gopalan, M. Sigrist, and F. C. Zhang, CORRELATION EFFECTS IN LOW-DIMENSIONAL ELECTRON SYSTEMS 118, 177-184 (1994). Times cited: 4
104. *Cuprates intermediate between one and two dimensions*, T. M. Rice, S. Gopalan, M. Sigrist, and F. C. Zhang, Journal of Low Temperature Physics 95, 299-308 (1994). Times cited: 1
105. *Fermion analogy of anyon superconductivity in the two-dimensional electron gas*, Y. Ren and F. C. Zhang, Phys. Rev. B 49, (Rapid Comm.), 1532-1535 (1994). Times cited: 11
106. *Application of a Su-Schrieffer-Heeger-like model to the intra-molecular electron-phonon coupling in C_{60} clusters*, W. M. You, C. L. Wang, F. C. Zhang, Z. B. Su, Phys. Rev. B 47, 4765-4770 (1993). Times cited: 36
107. *Chiral optical resonance of vortex core states in type II superconductors*, Y. D. Zhu, F. C. Zhang, and H. D. Drew, Phys. Rev. B 47, (Rapid Comm.) 586-588 (1993). Times cited: 11
108. *Reanalysis of fractional quantum Hall effect in systems with vanishing range interactions*, F. C. Zhang, M. Ma, Y. D. Zhu, J. K. Jain, Phys. Rev. B 46, (Rapid Comm.) 2632-2635 (1992). Times cited: 2
109. *Optical excitation of quasi particle pairs in the vortex core of high T_c superconductors*, K. Karrai, E. J. Choi, F. Dunmore, S. H. Liu, H. D. Drew, Q. Li, D. B. Fenner, Y. D. Zhu, F. C. Zhang, Phys. Rev. Lett. 69, 152-155 (1992). Times cited: 75
110. *Anyons, boundary constraint, and hierarchy in fractional quantum Hall effect*, S. He, X. C. Xie, and F. C. Zhang, Phys. Rev. Lett. 68, 3460-3463 (1992). Times cited: 58
111. *Spin orbit and spirals in doped La_2CuO_4* , N. E. Bonesteel, T. M. Rice, and F. C. Zhang, Phys. Rev. Lett. 68, 2684-2687 (1992). Times cited: 66
112. **** Attractive interactions and superconductivity for K_3C_{60}* , F. C. Zhang, M. Ogata, and T. M. Rice, Phys. Rev. Lett. 67, 3452-3455 (1991). Times cited: 141
113. *The Dzyaloshinskii-Moriya interaction in the cuprates*, D. Coffey, T. M. Rice and F. C. Zhang, Phys. Rev. B 44, 10112-10116 (1991). Times cited: 63
114. *Staggered flux phases in the t - J model—a Monte Carlo study*, G. J. Chen, R. Joynt, and F. C. Zhang, J. of Phys.: Condensed Matter 3, 5213-5218 (1991). Times cited: 3
115. *Incompressible quantum liquid states of ideal anyons in a strong magnetic field*, F. C. Zhang and M. Ma, Modern Physics B 5, 1725-1729 (1991). Times cited: 0
116. *Quantum Hall effect in double quantum well systems*, S. He, X. C. Xie, S. Das Sarma, and F. C. Zhang, Phys. Rev. B 43, 9339-9342 (1991). Times cited: 59

117. *** *Quantum Hall effect of ideal anyons*, M. Ma, and F. C. Zhang, Phys. Rev. Lett. 66, 1769-1772 (1991). Times cited: 17
118. *Electronic Structure of High Tc Superconductors*, T. M. Rice, F. Mila, and F. C. Zhang, Philosophical Transactions of the Royal Society of London, A 334, 459-471 (1991). Times cited: 13
119. *Collective modes of an anyon gas on a lattice*, F. C. Zhang, M. Norman, Phys. Rev. B 43, 6143-6146 (1991). Times cited: 4
120. *Spin singlet Laughlin-Halperin type wavefunctions for the quantum Hall states*, X. C. Xie and F. C. Zhang, Modern Physics Letter, B 5, 471-478 (1991).
121. *Destruction of fractional quantum Hall effect in thick layer systems*, S. He, F. C. Zhang, X. C. Xie, and S. Das Sarma, Phys. Rev. B 42, 11376-11379 (1990). Times cited: 39
122. *Self-consistent mean field approach for the ideal anyon gas*, L. Zhang, M. Ma, and F. C. Zhang, Phys. Rev. B 42, 7894-7897 (1990). Times cited: 13
123. *Phases of the t-J model from variational Monte Carlo studies*, G. J. Chen, R. Joynt, F. C. Zhang, and C. Gros, Phys. Rev. B 42, (Rapid Comm.) 2662-2664 (1990). Times cited: 69
124. *Validity of singlet model*, F. C. Zhang and T. M. Rice, Phys. Rev. B 41, 7243-7246 (1990). Times cited: 50
125. *** *Superconducting Instability of staggered-flux phase in the t-J model*, F. C. Zhang, Phys. Rev. Lett. 64, 974-977 (1990). Times cited: 51
126. *Infinite U_d , U_p ground state of the extended Hubbard model - Reply*, F. C. Zhang and T. M. Rice, Phys. Rev. B 41, 2560-2561 (1990). Times cited: 13
127. *Asymmetry in the hierarchy formalism of the fractional quantum Hall status*, F. C. Zhang and X. C. Xie, Phys. Rev. B 40, 11449-11451 (1989). Times cited: 8
128. *Fractional quantum Hall effect with spin reversal*, X. C. Xie, Y. Guo, and F. C. Zhang, Phys. Rev. B 40, 3487-3490 (1989). Times cited: 38
129. *Electronic structure and superconductivity for Cu-oxides*, F. C. Zhang, Physica Scripta, T27, 117-120 (1989). Times cited: 1
130. *Impurity states in the t-J model*, K. J. Von Szczepanski, T. M. Rice and F. C. Zhang, Europhysics Letters 8(8), 797-802 (1989). Times cited: 17
131. *Exact mapping from a two-band model for Cu-oxides to a single band Hubbard model*, F. C. Zhang, Phys. Rev. B 39, 7375-7377 (1989). Times cited: 42
132. *Frequency-dependent conductivity from carriers in Mott insulators*, T. M. Rice and F. C. Zhang, Phys. Rev. B 39, 815-818 (1989). Times cited: 72
133. *** *A renormalized Hamiltonian approach to a resonant valence bond wavefunction*, F. C. Zhang, C. Gros, T. M. Rice and H. Shiba, Superconductor Science and Technology 1, 36-46 (1988). Times cited: 353
134. *The single band effective Hamiltonian for high Tc superconductors from a cluster analysis of experimental data*, F. Mila, F. C. Zhang and T. M. Rice, Physica C 153-155, 1221-1222 (1988). Times cited: 7
135. *Mean field RVB theory - degeneracy, gauge symmetry and the comparison to exact results*, F. C. Zhang, C. Gros, T. M. Rice, H. Shiba and R. Joynt, Physica C 153-155, 1251-1252 (1988). Times cited: 4

136. *Superconductivity in correlated wavefunctions*, C. Gros, D. Poiblan, T. M. Rice and F. C. Zhang, Physica C 153-155, 543-548 (1988). Times cited: 10
137. *The formation of resonating valence bond droplet in La_2CuO_4 based compounds*, T. K. Lee, F. C. Zhang and L. N. Chang, J. of Phys. C 21, L225-L229 (1988). Times cited: 4
138. *** *Effective Hamiltonian for the superconducting Cu-oxides*, F. C. Zhang and T. M. Rice, Phys. Rev. B 37, 3759-3761 (1988). Times cited: 2155
139. *Dimerization in 2-dimensional Hubbard model*, F. C. Zhang and P. Prelovsek, Phys. Rev. B 37, 1569-1573 (1988). Times cited: 27
140. *Absence of the long range antiferromagnetic order in doped $La_{2-x}Sr_xCuO_4$* , Y. Takahashi and F. C. Zhang, Zeitschrift fur Physik B 69, 443-447 (1988). Times cited: 10
141. *High T_c superconductivity - Hubbard Model?*, F.C. Zhang, Proceedings of the 5th International Conference on the Recent Progress in Many-body Theories edited by A. J. Kallio, E. Pajanne and R. F. Bishop, Plenum Press, N.Y. 1988.
142. *Bipolaron models of superconductors*, P. Prelovsek, T. M. Rice, F. C. Zhang and A. Klostermann, Physica B 148, 268-270 (1988). Times cited: 3
143. *Comment on the effective magnetic moments of heavy fermions and the Wilson ratio for the Kondo lattice*, F. C. Zhang and T. K. Lee, Phys. Rev. Lett. 58, 2728 (1987). Times cited: 17
144. *Bipolaron condensation induced by doping of charge density wave systems*, P. Prelovsek, T. M. Rice and F. C. Zhang, J. of Phys. C 20, L229-L233 (1987). Times cited: 110
145. *Two competing interactions in the Anderson lattice model*, F. C. Zhang, T. K. Lee and Z. B. Su, Phys. Rev. B 35, 4728-4736 (1987). Times cited: 9
146. *Hard-core repulsive interactions in even parity electron pairings for heavy fermion systems*, F. C. Zhang and T. K. Lee, Phys. Rev. B 35 (Rapid Comm.), 3651-3654 (1987). Times cited: 16
147. *Extended and localized states in the Anderson lattice model*, T. K. Lee and F. C. Zhang, Phys. Rev. B 34, 8114-8117 (1986). Times cited: 3
148. *Spin-1 quasiparticle and spin polarizations of the ground state in the fractional quantum Hall effect*, F. C. Zhang and T. Chakraborty, Phys. Rev. B 34, 7076-7079 (1986). Times cited: 18
149. *Termination of hierarchy of fractional quantum Hall states: Scaling of impurity effect*, F. C. Zhang, Phys. Rev. B 34, 5598-5602 (1986). Times cited: 5
150. *Elementary excitations in the fractional quantum Hall effect and the spin reversed quasiparticles*, T. Chakraborty, P. Pietilainen and F. C. Zhang, Phys. Rev. Lett. 57, 130-133 (1986). Times cited: 74
151. *** *Excitation gap in the fractional quantum effect: Finite layer thickness corrections*, F. C. Zhang and S. Das Sarma, Phys. Rev. B 33 (Rapid Comm.), 2903-2905 (1986). Times cited: 176
152. *Effect of a charged impurity on the fractional quantum Hall effect: Exact numerical treatment of a finite system*, F. C. Zhang, V. Z. Vulovic, Y. Guo and S. Das Sarma, Phys. Rev. B 32 (Rapid Comm.), 6920-6923 (1985). Times cited: 47
153. *Renormalization group theory of spinodal decomposition*, G. F. Mazenko, O. T. Valls and F. C. Zhang, Phys. Rev. B 32, 5807-5817 (1985). Times cited: 59

154. *Kinetics of first-order phase transitions: Monte Carlo simulations, renormalization-group methods and scaling for critical quenches*, G. F. Mazenko, O. T. Valls and F. C. Zhang, Phys. Rev. B 31, 4453-4464 (1985). Times cited: 80
155. *Growth of order in order-disorder transitions: Tests of universality*, F. C. Zhang, O. T. Valls and G. F. Mazenko, Phys. Rev. B 31, 1579-1589 (1985). Times cited: 31
156. *Ground state of two dimensional electrons and the reversed spins in the fractional quantum Hall effect*, F. C. Zhang and T. Chakraborty, Phys. Rev. B 30 (Rapid Comm.), 7320-7322 (1984). Times cited: 77
157. *Spectral density and magnetic susceptibility for the asymmetric degenerate Anderson model*, F. C. Zhang and T. K. Lee, Phys. Rev. B 30, 1556-1558 (1984). Times cited: 40
158. *Role of reversed spins in the correlated ground state for the fractional quantum Hall effect*, T. Chakraborty and F. C. Zhang, Phys. Rev. B 29 (Rapid Comm.) 7032-7033 (1984). Times cited: 78
159. *A revised diagrammatic technique for the degenerate Anderson model*, T. K. Lee and F. C. Zhang, J. of Appl. Phys. 55, 1936-1938 (1984). Times cited: 10
160. **** $1/N$ expansion for the degenerate Anderson model in the mixed valence regime*, F. C. Zhang and T. K. Lee, Phys. Rev. B 28, 33-38 (1983). Times cited: 68
161. *Statistical-theory of type I antiferromagnetism and AB alloy super-lattice on a face centered lattice - a series expansion method*, Z. M. Liu, F. C. Zhang, W. I. Xue, and Y. Y. Li, Chinese Physics 2: (4) 897-909 (1982). Times cited: 2
162. *A correction-to-scaling critical exponent for fluids at order of ϵ^3* , F. C. Zhang and R. K. P. Zia, J. of Phys. A 15, 3303-3305 (1982). Times cited: 27